Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

GEOLOGICAL DATA INVENTORY FOLIO

GDIF 552

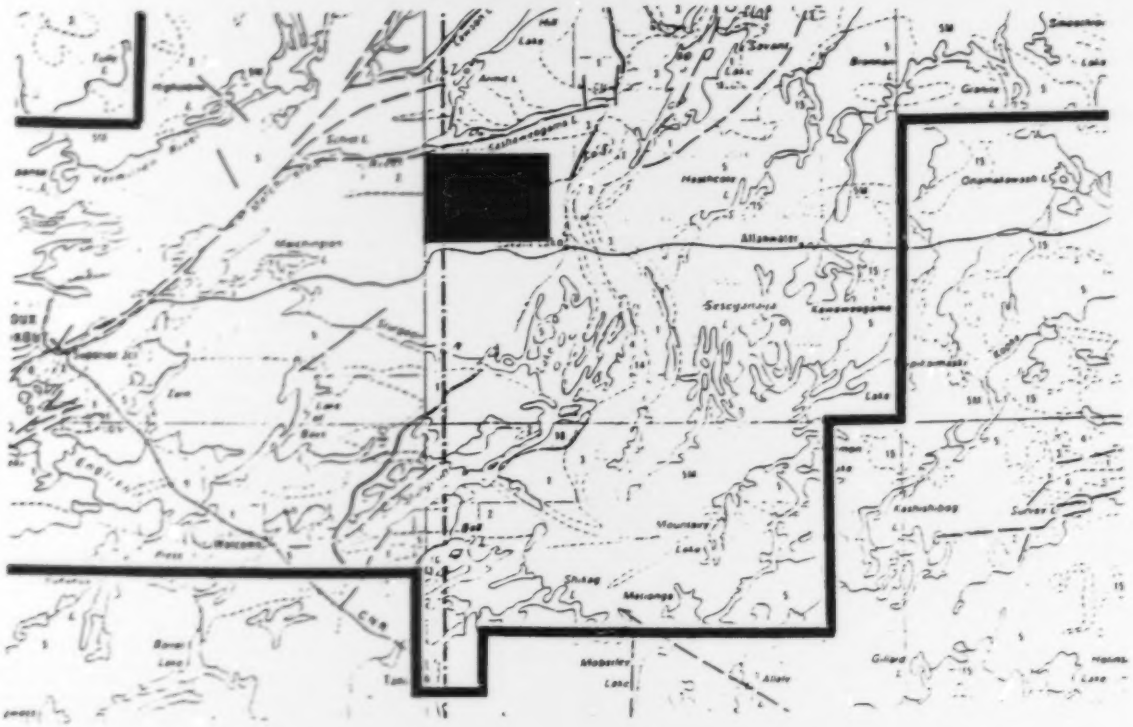
N.T.S. No. 52J/07SW

HOUGHTON LAKE AREA

Compiled by the staff of

the Resident Geologist's Office

Sioux Lookout



LOCATION MAP

90-04565

Mining Claim Map Number G-2070

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Houghton Lake Area, Geological Data Inventory Folio 552; compiled by the staff of the Resident Geologist's office, Sioux Lookout.

Original Compilation by: C.J. Proctor, M.O. Roy

Date	Page(s) Revised	Revised by

Date	Page(s) Revised	Revised by

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ACCOMPANYING MAPS (see map legends on outside back cover).

A. Files Index Map (s) ..... Map A-1, A2, A3

B. Exploration Data Map (s) ..... Map B-1

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept. (A.R.)	Annual Report
A.R.I.P	Aggregate Resources Inventory Paper
Bull	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull.	Geological Society of American Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C.	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
MP	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines/Ontario Division of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
OGS	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
SOEGTS	Southern Ontario Engineering Geology Terrain Study
Sum. Rept.	Summary Report

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no': if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	CJP
2	Assessment Files Research Office, Toronto	YES	CJP
3	OGS/ODM General Index	YES	CJP
4	Catalogue of Airborne Geophysical Surveys (ODM)	YES	CJP
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	NO	CJP
6	ODM Industrial Mineral Reports	NO	CJP
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	NO	CJP
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	CJP
9	Newspaper Clippings File	YES	CJP
10	GSC Index to Publications	YES	CJP
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	CJP
12	OGS Index Maps	YES	CJP
13	Source Mineral Deposit Records (OGS)	YES	CJP
14	Author - Subject Articles File	NO	CJP
15	ODM/OGS Miscellaneous Papers	YES	CJP
16	ODM Geological Circulars	NO	CJP
17	OGS Study Series	NO	CJP
18	ODM Preliminary Reports	NO	CJP
19	ODM Bulletins	NO	CJP
20	ODM/OGS Open File Reports	YES	CJP
21	OGS Northern/Southern Ontario Engineering Geology Terrain Studies	YES	CJP
22	OGS Aggregate Resources Inventory Papers	NO	CJP
23	OGS Mineral Potential Maps	YES	CJP
24	Drill Core Library Catalogue	NO	CJP
25	Aerial Photographs	YES	CJP
26	Unpublished Theses	NO	CJP

*

MINERAL COMMODITIES REFERENCE LIST

anh ..... Anhydrite
ank ..... Ankerite
ap ..... Apatite
arg ..... Argentite
As ..... Arsenic
asp ..... Arsenopyrite
asb ..... Asbestos
ba ..... Barite
be ..... Beryl
Bi ..... Bismuth
bn ..... Bornite
Cd ..... Cadmium
calc ..... Calcite
carb ..... Carbonate
cc ..... Chalcocite
cp ..... Chalcopyrite
ch ..... Chert
clay ..... Clay
Co ..... Cobalt
cob ..... Cobaltite
▲ Cu ..... Copper
cor ..... Corundum
dol ..... Dolomite
ep ..... Epidote
fel ..... Feldspar
fl ..... Fluorite (flurospar)
fu ..... Fuchsite
gn ..... Galena
gt ..... Garnet
goe ..... Goethite
▲ Au ..... Gold
gf ..... Graphite

gl ..... Gravel
gyp ..... Gypsum
hem ..... Hematite
Fe ..... Iron
IF ..... Iron Formation
jas ..... Jasper
ky ..... Kyanite
Pb ..... Lead
lim ..... Limonite
Li ..... Lithium
mgst ..... Magnesite
mag ..... Magnetite
mc ..... Malachite
Mn ..... Manganese
mb ..... Marble
mar ..... Marcasite
ma ..... Marl
mi ..... Mica
mo ..... Molybdenite
Mo ..... Molybdenum
mon ..... Monazite
ne .... Nephelite (nepheline)
Ni ..... Nickel
Nb ..... Niobium
Pd ..... Palladium
pent ..... Pentlandite
Pt ..... Platinum
py ..... Pyrite
pyl ..... Pyrochlore
po ..... Pyrrhotite
q ..... Quartz
qcv .. Quartz carbonate vein

ra ..... Radioactive minerals
RE ..... Rare Earths
sd ..... Sand
sgl ..... Sand and gravel
ss ..... Sandstone
scap ..... Scapolite
shee ..... Scheelite
serp ..... Serpentine
sh ..... Shale
sid ..... Siderite
si ..... Silica
▲ Ag ..... Silver
sl ..... Slate
sm ..... Smaltite
sod ..... Sodalite
spec ..... Specularite
sp ..... Sphalerite
spd ..... Spodumene
s ..... Sulphides
talc ..... Talc
Te ..... Tellurium
th ..... Thorite
Th ..... Thorium
ti ..... Titanite
Ti ..... Titanium
tour ..... Tourmaline
W ..... Tungsten
uran ..... Uraninite
U ..... Uranium
verm ..... Vermiculite
Zn ..... Zinc
zr ..... Zircon

ADDITIONS

*

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps

MINERAL OCCURRENCES

Ref Letter on Map	(see Exploration Data Map) Name(s)	Mineralization	REFERENCES IN SMDR-Source Mineral Deposit Record MDC-Mineral Deposits Circular, OGS IMR-Industrial Mineral Report, OGS MDI-Mineral Deposit Inventory NMI-National Mineral Inventory	Additional References and/or Remarks
A	Island Lake	Cu,Ag,Au	TBO605 (SMDR)	OGR Report 195, p.89 Map 2424

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done, e.g., 68 for 1968																OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref No on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
1	Stargazer Res. L. (52J/09SW-0025)								81	81								
2	H.B.O.G. Mining L. (52J/09SW-0027)				74													
3	Canex Aerial Expl. L. (52J/07SW-0010-A1)				70	70												
4	Canex Aerial Expl. L. (52J/07SW-0010-C1)				70													
5	Umex Corp. L. (52J/07SW-0010-D1)				78													
6	Umex Corp. L. (52J/07SW-0011-A1)				78													
7	Umex Corp. L. (52J/07SW-0011-B1)				78													
8	Umex Corp. L. (52J/07SW-0011-D1)				79													
9	Umex Corp. L. (52J/07SW-0011-E1)				79													

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done, e.g., 68 for 1968																OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
10	Umex Corp. L. (52J/07SW-0012-A1)				79													
11	Umex Corp. L. (52J/07SW-0012-B1)				80													
12	Falconbridge Copper (52J/07SW-0012-C1)				82													
13	Umex Corp. L. (52J/07SW-0012-E1)				78													
14	Noranda Expl. C. L. (52J/07SW-0013)												81					
15	Falconbridge Copper (52J/07SW-0023)	81																
16	Umex Corp. L. (52J/07SW-0014)								77									
17	Preussag Canada L. (52J/07SW-0015)											80	80					
18	Falconbridge Copper (52J/07SW-0016)											79	79					

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done, e.g., 68 for 1968																	OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref No on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY		
19	Umex Corp. L. (52J/07SW-0017)								78	78									
20	Canex Aerial Expl. L. Black Giant Mines L. (52J/07SW-0018)	71										71	71						
21	Umex Corp. L. (52J/07SW-0019)								77										
22	Falconbridge Copper (52J/07SW-0020-A1)												82						
23	Canex Aerial Expl. L. (52J/07SW-0020-B1)								70	70									
24	Noranda Expl. C. L. (52J/07SW-0021-A1)											78	78						
25	Noranda Expl. C. L. (52J/07SW-0021-B1)	78																	
26	Noranda Expl. C. L. (52J/07SW-0022-A1)											71	71						
27	Preussag Canada L. (52J/07SW-0022-B1)	80				80													

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done, e.g., 68 for 1968																OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref No on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	
28	Umex Inc. (52J/07SW-0024)	82	82									82						
29	Umex Inc. (52J/07SW-0025)		84			84												
30	Cumberland Res. L. Redfern Res. L. Vestor Expl. L. (52J/07SW-0026)	84							84	84								
31	Umex Inc. (52J/07SW-0027)	84	84															
32	Cumberland Res. L. Redfern Res. L. Vestor Expl. L. (52J/07SW-0028)	85																
33	Umex Inc. (52J/07SW-0029-A1)				84			84										
34	Stargazer Res. L. (52J/08NW-0033)	81	81									81	81		81			
35	Stargazer Res. L. (52J/08NW-0034)	82	82									82	82		82			

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) EXPLORATION FILES		Numbers below represent the year in which the work was done, e.g., 68 for 1968																	
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES CORRESPONDENCE	AIRBORNE MAGNETIC	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY	OTHER DATA IN THIS FILE, OR FOOTNOTES
36	Cumberland Res. (52J/07NE-0030)		83																
37	Umex Inc. (52J/07SE-0036)		84			84													
38	Umex Inc. (52J/07SE-0047)		84	84		84													
39	Umex Inc. (52J/07SE-0050)	83	83																
40	Teck Expl. L. (52J/07SE-0074)	83																	
41	Best, A. (52J/07SE-0070-A1)								78	78									
42	Cumberland Res. L. (52J/07SW-0030)		83																
43	Cumberland Res. L. (52J/07SW-0031)	84	84																
44	Geocanex Ltd. (52J/07SW-0032)								89	89									

SEE PAGE 14-1...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name (file number)	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth degree	Initial Dip of Hole degree	Thickness of Overburden feet	Total Length of Hole feet	Mineralization Noted in Log	Assay Data Included for
1	HBOG Mining L.	S-N-734	1974	15	-45	14.00	164.50	po,py	Au,Ag,Cu, Zn,Ni
2		S-FL-73-1	1974	230	45	8.00	125.00	po,cp	Au,Ag,Cu, Zn
3	Canex Aerial Expl. L.	118-9-1	1970	South	-45	13.00	175.00	po,py,mag	Ni,Au,Ag
4		118-9-2	1970	North	-45	18.00	173.50	py,po	--
5		118-7-3	1970	South	-60	25.00	176.00	py,po,cp, mag	--
6	Umex Corp. L.	Sa 28	1978	S75W	-50	136.00	345.00	--	--
7		Sa 29	1978	S75E	-50	22.00	457.00	--	--
8		Sa 39	1978	330	-50	6.00	493.00	py,cp,sp	--
9		SA 43	1978	340	-55	74.90	700.00	staur,py, cp,gal,po, sp	--
10		SA 37	1978	340	-50	6.80	437.00	po,cp,py,mo	--
11		SA 38	1978	340	-50	4.50	365.00	po,py,cp	--
12		SA 45	1979	180	-50	13.00	405.00	po,py	--
13		SA 44	1979	N30W	-55	22.00	729.00	cp,po,py	--
14		SA 46	1979	N30W	-53	10.00	400.00	py,po,asp	--

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name (file number)	Company Drillhole Number	Date Drilled Com-pleted	Bearing Azimuth Degrees	Initial Dip of Hole De-grees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
15	Umex Corp. L.	SA 57	1980	356	-55	32.00	562.00	py,po,cp hem	--
16	Falconbridge Copper	UM-C-2-82	1982	335	-60	10.70	601.00	po,py,cp	Cu,Zn,Pb, Ag,Au,Co
17		UM-C-1-82	1982	335	-45	8.95	410.00	po,py,cp	Cu,Zn, Multi-Spectral

● —— indicates core stored at Drill Core Library

AIRBORNE GEOPHYSICAL SURVEY DATA

Number on File Index Map(s)	– by – for – year	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
1	-Geophysical Surveys -Stargazer Res. L. -1981 (52J/09SW-0025)	Magnetometer & Electromagnetic	160' 120'	NW/SE	1/10 mi.
16	-Questor Surveys -Umex Corp. L. -1977 (52J/07SW-0014)	Magnetometer	400'	N/S	1/8 mi.
19	-Questor Surveys -Umex Corp. L. -1978 (52J/07SW-0017)	Magnetometer & Electromagnetic	200'	N/S NW/SE	125 m.
21	-Questor Surveys -Umex Corp. L. -1977 (52J/07SW-0019)	Magnetometer	400'	N/S	1/8 mi.
23	-McPhar Geophysics -Canex Aerial Expl. L. -1970 (52J/07SW-0020-B1)	Magnetometer & Electromagnetic	450'	N/S	1/8 mi.
30	-Dighem Ltd. -Cumberland Res. L. Redfern Res. L. Vestor Explorations L. -1984 (52J/07SW-0026)	Magnetometer & Electromagnetic	45 m. 30 m.	N/S	200 m.
41	-Aerodat Ltd. -Best, A. -1978 (52J/07SE-0070-A1)	Magnetometer & Electromagnetic	200'	N/S NW/SE	125 m.

AIRBORNE GEOPHYSICAL SURVEY DATA

Number on File Index Map(s)	– by – for – year	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
44	-Terraquest L. -Geocanex L. -1989 (52J/07SW-0032)	Magnetometer & Electromagnetic	100m	360°	100m

GEOCHEMICAL SURVEY DATA

(see Exploration Data Map)

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
1	Lithogeochemical & Rock	Zn,Cu,Na_2O, multi-spectral	Umex Inc.	(52J/07SW-0024)
2	Lithogeochemical	Au,Ag,As,Sb,Ba,Mn, multi-spectral	Umex Inc.	(52J/07SW-0025)
3	Lithgeochemical	Multi-spectral	Umex Inc.	(52J/07SW-0027)
4	Biogeochemical,Rock,Soil	Au,As,Ag,Pb,Zn,Cu,Mn,W,Sb	Stargazer Res. Ltd.	(52J/08NW-0033)
5	Biogeochemical	Au,Ag,As,Pb,Zn,Cu,Mn,W,Sb	Stargazer Res, Ltd.	(52J/08NW-0034)
6	Soil	Multi-spectral	Cumberland Res. Ltd.	(52J/07NE-0030)
7	Lithogeochemical	As,Pb,Zn,Cu,Ag,Au,Zn	Umex Ltd.	(52J/07SE-0036)
8	Lithogeochemical	Na_2O,Cu,Zn,Pb	Umex Inc.	(52J/07SE-0047)
9	Lithogeochemical	Cu,Pb,Zn,Na_2O	Umex Inc.	(52J/07SE-0050)
10	Soil	Multi-spectral	Cumberland Res. Ltd.	(52J/07SW-0030) same as file (52J/07NE-0030)
11	Soil	Cu,Pb,Zn,Au,Ag	Cumberland Res. Ltd.	(52J/07SW-0031)

GEOCHRONOLOGY DATA - AGE DATING

Site No on Map	Method	Material	Reference	Result
	NO DATA AS OF SEPTEMBER, 1989			

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologists Office:

(a) Aerial Photographs:

Area	Line	Photo #	Year	Scale
Savant L. (Houghton)	5015	94-106	1975	4"=1 mile
	5014	68-79	1975	4"=1 mile
	5013	17-29	1975	4"=1 mile
	5012	66-77	1975	4"=1 mile
	5011	241-253	1975	4"=1 mile

(b) Photomosaics:

(c) Satellite Imagery:

TOPOGRAPHIC MAPS (selected)

scale	year	name and/or number	by
1:50,000	1975	Kashaweogama Lake	Surveys & Mapping Branch, Dept. of Energy, Mines and Resources
1:126,720	1975	Savant Lake	Surveys & Mapping Branch, Ministry of Natural Resources

NEWSPAPER CLIPPINGS FILE (selected)

PAPER	DATE	PAGE	"ARTICLE HEADLINE" OR COMPANY AND/OR SUBJECT
Northern Miner	July 21, 1986	p.3	Cumberland Resources (Redfern Res. L.) (Vestor Expl.)
	Apr. 23, 1986	p.?	
George Cross Newsletter	Aug. 24, 1984	p.?	Cumberland Res. (Redfern Res. L.) (Vestor Expl.)
	Mar. 23, 1984	p.3	Cumberland Res. (Redfern Res. L.) (Vestor Exploration)
Northern Miner	Aug. 13, 1981	p.3	Golex Resources
Northern Miner	Mar. 10, 1983	p.2	Stargazer Resources L.
	Mar. 25, 1982	p.19	
	Aug. 13, 1981	p.3	
P.D.A. Recorder	July, 1981	--	Stargazer Resources L.

OGS/ODM GENERAL INDEX SEARCH

Words Searched:

Houghton Lake, Port Lake, Bowl Lake, Island Lake

Index Volume	Listing	Report Volume	Part	Page
I	Lake Savant Iron Range	XIX	1	173-187
II	no listings			
III	no listings			
IV	no listings			
V	no listings			
VI	no listings			
VII	no listings			
8	Houghton Hough Lakes Area	MP	56	25-31
9	Geology of the Houghton-Hough Lakes Area	GR	195	24,47, 75-88, 89,90, 91-97
9	Preliminary Geological Synthesis of the Savant Lake-Crow Lake Metavolcanic-Metasedimentary Belt and its Bearing Upon Mineral Exploration	MP	89	2

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and or Report Pages
Bond, W. D.	1973	Houghton-Hough Lakes Area (Savant Lake Area), District of Thunder Bay, p.25-31 in Summary of Field Work 1973, O.D.M. Miscellaneous Paper 56, 210p.	MP 56	p.25-31
Bond, W. D.	1974	Houghton-Hough Lakes Area, District of Thunder Bay, O.D.M. Preliminary Map P.933, Geological Series	P. 933	1"=¼ mile 1:15,840
Bond, W. D.	1978	Geology of the Houghton-Hough Lakea Area (Savant Lake Area), District of Thunder Bay,O.G.S. Open File Report 5237, 191p.	OFR 5237	--
Bond, W. D.	1979	Houghton Lake-Hough Lake, O.G.S. Map 2424, Precambrian Geology Series	Map 2424	1"=¼ mile 1:31,680
Bond, W. D.	1980	Geology of the Houghton-Hough Lakes Area (Savant Lake Area), Ontario Geological Survey Report 195, accompanied by Map 2424	Report 195 Map 2424	 1"=¼ mile
Cortis, A. L. Stott, G. M. Osmani, I. A. Atkinson, B. Thurston, P. C.	1988	Project Number 88-10, A Geological Re-evaluation of Northwestern Greenstone Belts, p.28-52 in Summary of Field Work and Other Activities, 1988, by the O.G.S., Miscellaneous Paper 141, 498p.	MP 141	p.28-52
Davis, D. W. Blackburn, C. E. Trowell, N.F. Edwards, G. R.	1980	Geochronology of the Savant-Crow Lakes Area, Western Wabigoon Subprovince, Districts of Kenora, Rainy River and Thunder Bay, p.24-33 in Summary of Geochronology Studies 1977-1979, by the O.G.S., Miscellaneous Paper 92, 45p.	MP 92	p.24-33

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and or Report Pages
Dept. of Mines and Resources	1939	Kenora Sheet, Map 266A	Map 266A	1"=8 miles 1:506,880
O.D.M.	1937	Savant Lake Gold Area, District of Thunder Bay, Ontario, to accompany report of E. S. Moore in Vol. XXXVII, pt. 4, Map 37j	Map 37j	1"=2 miles 1:126,720
O.D.M.	1966	Miniss Lake Sheet, Preliminary Geological Map P.354, Districts of Thunder Bay and Kenora, Geological Compilation Series	P.354	1"=2 miles
O.D.M.	1968	Sioux Lookout-Armstrong Sheet, Geological Compilation Series, Kenora and Thunder Bay Districts, Map 2169	Map 2169	1"=4 miles 1:253,440
O.D.M. G.S.C.	1976	Airborne Gamma-Ray Spectrometry Survey Total Count, Sioux Lookout Sheet, Districts of Kenora and Thunder Bay, O.D.M. Preliminary Map P.1112-1118, Geophysical Series	P.1112 to P.1118	1"=4 miles 1:250,000
O.D.M. O.G.S.	1961	Kashaweogama Lake, Kenora and Thunder Bay Districts, Map 1119G, Sheet 52J/7	Map 1119G	1:63,360
Palonen, P. A. Speed, A. A.	1976	Houghton Lake Area, District of Kenora and Thunder Bay, O.D.M. Preliminary Map P.1086, Sioux Lookout	P.1086	1"=¼ mile 1:15,840
Robertson, James A. Vos, M. A. Springer, Janet A.	1976	Mineral Potential Map of Ontario 1976, West Central Sheet, O.D.M. Preliminary Map P.1098, Mineral Deposits Series	P.1098	1"=16 miles 1:1,013,760

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Skinner, R.	1968	Geology of Sioux Lookout Map Area, Ontario, A Part of the Superior Province of the Precambrian Shield, 10p., Map 14-1968	Paper 68-45 Map 14-1968	1:250,000
Springer, Janet	1978	Ontario Mineral Potential, Sioux Lookout Sheet, Districts of Kenora and Thunder Bay, O.G.S. Preliminary Map P.1537, Mineral Deposits Series	P.1537	1"=4 miles 1:250,000
Trowell, N. F.	1986	Geology of the Savant Lake Area, Districts of Kenora and Thunder Bay, O.G.S., Open File Report 5606, 181p.	OFR 5606	--
Trowell, N. F.	1988	Precambrian Geology of the Savant Lake Area, District of Thunder Bay and Kenora, O.G.S., Map P.3099, Geological Series - Preliminary Map	P.3099	1:50,000
Trowell, N. F. Blackburn, C. E. Edwards, G. R.	1980	Preliminary Geological Synthesis of the Savant Lake-Crow Lake Metavolcanic-Metasedimentary Belt, Northwestern Ontario and its Bearing Upon Mineral Exploration, O.G.S., Miscellaneous Paper 89, 30p.	MP 89	p.1-30
Trowell, N. F. Blackburn, C. E. Edwards, G. R. Sutcliffe, R. H.	1977	Savant Lake-Crow Lake Special Project, Districts of Kenora and Thunder Bay, p.29-32 in Summary of Field Work, 1977, O.G.S. Miscellaneous Paper 75, 208p.	MP 75	p.29-32
Trusler, J. R.	1974	Farrington Lake Area, District of Kenora, p.41-47 in Summary of Field Work, O.D.M. Miscellaneous Paper 59, 206p.	MP 59	p.41-47

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and or Report Pages
Trusler, J. R.	1982	Geology of the Farrington Lake Area, District of Kenora, O.G.S., Open File Report 5354, 101p.	OFR 5354	--
VanDine, D. F.	1989	Northern Ontario Engineering Geology Terrain Study, Savant Lake, Data Base Map, O.G.S., Map 5115	MAP 5115	1:100,000
Sanborn-Barrie, Mary	1989	Geology of the Savant Lake Area, in Summary of Field Work and Other Activities 1989, O.G.S., Miscellaneous Paper 146, p.54-62	MP 146	

Note No.	NOTES

ADDENDA

CONVERSION FACTORS

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	6.451 6	cm^2
1 m^2	10.763 9	square feet	1 square foot	0.092 903 04	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	16.387 064	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.

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HOUGHTON LAKE AREA

MAP LEGENDS

A. FILES INDEX MAP

FILE AREAS **See pages 4-1,2 .... of text**

- ■ Reference number is always inside work area outlined. See listing in text pages.
- ☐ Small area of exploration data
- ■ File covers whole township or area
- ☐

B. EXPLORATION DATA MAP

MINERAL OCCURRENCES: **See pages 3-1,2... of text**

- ■ Mineral occurrence at surface, with reference letter
- ☐ Mineral occurrence with shaft, depth given with reference letter
- ☐ Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ Mineralized float with reference letter
- ☐ Mineral occurrence encountered in drilling, with reference letter
- ☐

DRILLHOLES: **See pages 5-1,2... of text**

- ■ Location of single drillhole, with reference number
- ☐ Location of group of closely spaced drillholes, with reference number
- ☐ Drillhole, exact location uncertain, with reference number
- ☐ Property with underground drillholes in this general area, with reference number
- ☐ Property with drillholes which have not been plotted on map, with reference number
- ☐ Reverse circulation drillhole, churn drilling, with reference number
- ☐

GEOCHEMICAL: **See pages 7-1,2...of text**

- ☐ Geochemical sample site, with reference number
- ■ Area of geochemical sampling, with reference number
- ☐

GEOPHYSICAL ANOMALIES

Airborne Surveys: **See pages 6-1,2... of text**

- ■ AM — Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly Length of anomaly along flight line
- ■ Airborne electromagnetic anomaly Location of anomaly along flight line
- ■ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ☐ AEM — Airborne electromagnetic anomaly Conductor axis: Location of flight lines uncertain
- ☐ ARA — Airborne radiometric anomaly

Ground Surveys

- ■ M — Ground magnetic anomaly
- ■ VL — Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop VLF - Very low freq.; Turam; JEM - Crone Em - 16)
- ☐ RA — Ground radiometric anomaly
- ☐ IP — Induced polarization anomaly
- ☐ SP — Self potential anomaly
- ☐ AFMAG — Audio-frequency magnetic anomaly (total intensity)
- ☐ R — Resistivity anomaly
- ☐ GR — Gravity anomaly
- ☐

GEOCHRONOLOGICAL DATA: **See page 8 of text**

- ☐ Age dating material sampling site, with reference number
- ☐

MISCELLANEOUS DATA

- ☐ Trenching, pit
- ☐ Rock quarry
- ☐ Adit
- ☐ Open pit
- ☐ Sand and/or gravel pit
- ☐
- ☐